

IDAHO Cumulative Science Document (with limits)

GRADE 8-10

All Sciences

Shaded objectives should be assessed in the classroom, but not included on the ISAT assessment.

Standard 1: Nature of Science

Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills	9-10.B.1.6.1 Identify questions and concepts that guide scientific investigations. (649.01a)	9-10.B.1.6.2 Utilize the components of scientific problem solving to design, conduct, and communicate results of investigations. (649.01b)	9-10.B.1.6.3 Use appropriate technology and mathematics to make investigations. (649.01c)	9-10.B.1.6.4 Formulate scientific explanations and models using logic and evidence. (649.01d)	9-10.B.1.6.5 Analyze alternative explanations and models. (649.01e)	9-10.B.1.6.6 Communicate and defend a scientific argument. (649.01f)	9-10.B.1.6.7 Explain the differences among observations, hypotheses, and theories. (649.01g)
	CL: E Content Limit: When presented a number of questions, students will be able to identify questions that can be investigated.	CL: E Content Limit: Items should address experimental design.	CL: C Content Limit: Students should be able to identify suitable forms of technology and mathematics needed to solve a problem presented in the question stem.	CL: E Content Limit: Assessed in the classroom, not on the ISAT.	CL: E Content Limit: When offered a variety of possible explanations, students should be able to identify the most logical option to fit with the question stem.	CL: D Content Limit: When offered a variety of possible explanations, students should be able to identify the option that will fit with the question stem.	CL: D Content Limit: Students should be able to distinguish between observations, hypotheses, and theories.

Shaded objectives should be assessed in the classroom, but not included on the ISAT assessment.

Standard 5: Personal and Social Perspectives; Technology

Goals:	Objective 1	Objective 2	Objective 3
Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced	<p>9-10.B.5.1.1 Analyze environmental issues such as water and air quality, hazardous waste, forest health, and agricultural production. (656.01a)</p> <p>CL: E Content Limit: Issues relevant to Idaho should be addressed: stream degradation, logging, mining, dams, and wind turbines.</p>		
Goal 5.2: Understand the Relationship between Science and Technology	<p>9-10.B.5.2.1 Explain how science advances technology. (655.01a)</p> <p>CL: E Content Limit: Use scientists whose discoveries have significance and ramifications in today's world to frame items.</p>	<p>9-10.B.5.2.2 Explain how technology advances science. (655.01a)</p> <p>CL: E Content Limit: Use common pieces of technology (lenses, electricity, computers, etc.) as the foundation for items that lead students to see the role technology has in advancing science.</p>	<p>9-10.B.5.2.3 Explain how science and technology are pursued for different purposes. (656.01b)</p> <p>CL: E Content Limit: Items should address the role of technology in applying science to improve some aspect of human life, and the role of science in answering questions and extending knowledge.</p>
Goal 5.3: Understand the Importance of Natural Resources and the Need to Manage and Conserve Them	<p>9-10.B.5.3.1 Describe the difference between renewable and nonrenewable resources. (656.03a)</p> <p>CL: D Content Limit: Topics like oil, metallic ores, and wood products are suitable for consideration.</p>		